

CLAIMS

1. A method of disposing of insects and arthropods comprising reacting at least two chemical compositions to generate carbon dioxide over a time of at least about several hours at levels in excess of ambient levels of carbon dioxide in the atmosphere, sufficient to be detected by insects and arthropods, and trapping the insects and arthropods attracted by the carbon dioxide emission for disposition.
2. A method as set forth in claim 1 wherein levels of CO₂ are generated over a period of days from an initial charge of the chemical compositions.
3. A method as set forth in claim 2 wherein one substance comprises a composition including baking soda and the other substance includes water.
4. A method as set forth in claim 2 wherein one substance comprises a solid composition of sodium bicarbonate and at least one chemical selected from the group consisting of lactic acid, and/or urea and the other substance comprises water and/or a weak acid.
5. A method as set forth in claim 3 including the step of exterminating the arthropod when captured by the adhesive.
6. An insect/arthropod trap comprising means for attracting insects and arthropods having a composition for emitting carbon dioxide in excess of ambient levels of carbon dioxide in the atmosphere over a period of at least several hours on interaction of the composition with an activating fluid, a container for the fluid, and a control for metering the flow of the fluid into contact with the composition, and a trap positioned adjacent the means containing the composition for trapping insects and arthropods.

7. An insect/arthropod trap comprising first and second containers for holding separate materials that when mixed together in one of the containers, generate an insect/arthropod attracting gas, openings in the container in which the gas is generated enabling the gas to escape therefrom,
and a member associated with one of the containers and having a surface on which an adhesive is applied for capturing insects attracted by the gas that alight on said surface.
8. An insect/arthropod trap as described in claim 7 wherein one of the containers is for holding an activating fluid and the other is for holding chemicals when mixed with the activating fluid generate the insect attracting gas,
and means for controlling the flow rate of the activating fluid from the one container to the other.
9. An insect/arthropod trap as described in claim 7 having a surface on which an adhesive is applied for capturing insects that alight on said surface.
10. An insect/arthropod trap as described in claim 9 wherein the surface on which the adhesive is applied is not readily visible to an observer from the outside of the base and member.
11. An insect/arthropod trap as described in claim 8 wherein the one container is mounted above the other, and the means for controlling the flow rate is a wick.
12. A composition of material for continuous emission of CO₂ over a time period in excess of several days when subject to a flow of water at a rate of in the order of 2ml/hr. comprising a cake or container of sodium bicarbonate weighing on the order of 400g to 500g.

13. A composition as set forth claim 12 wherein said cake or chemical container includes at least one additional compound selected from the group consisting of approximately 10 – 30% of lactic acid and 5 – 20% of urea.

14. An insect/arthropod trap comprising
a base having a surface for receiving an adhesive for capturing arthropods,
a container for holding a solid chemical for generating an arthropod attracting gaseous phase when mixed with a fluid,
a second container disposed adjacent the first container for supplying fluid to the first container to generate the arthropod attracting gaseous phase,
a hood having a surface for receiving an adhesive for capturing arthropods,
and a connector joining the two containers for conveying fluid from the second container to the first container when the arthropod attracting gaseous phase is to be generated.

15. An insect/arthropod trap as described in claim 14 wherein the hood is frusto conic in shape and the surface for adhesive is on the inner side of said hood.

16. An insect/arthropod trap as described in claim 14 wherein the hood has holes spaced from one of the containers, said one container having a surface consisting of fluorescent, UV reflective, or near-infrared reflective material such that, at a distance, two visible holes will be seen that may resemble the eyes of a mammal, with these holes permitting light to impinge on the one container and allow alternative arthropod entry.

17. An insect/arthropod trap as described in claim 15 having a skirt positioned below the hood with an adhesive surface to trap mosquitoes, ticks, chiggers and fleas.

18. An insect/arthropod trap as described in claim 17 wherein the adhesive is positioned on the inner surface of the skirt.

19. An insect/arthropod trap having a quantity of baking soda and lactic acid and a source of liquid selected from the group comprising water and a weak acid positioned to be delivered to the soda and lactic acid in incremental amounts over a time period.

20. An insect/arthropod trap having a quantity of urea and a source of a liquid selected from a group comprising water and a weak acid positioned to be delivered to the urea in incremental amounts for generation of ammonia.

21. An insect/arthropod trap as set forth in claim 19 having means for trapping insects and an attractant in the form of a colored member with the color of the member selected from the group comprising black, white, blue, red and green.

22. An insect/arthropod trap as set forth in claim 21 wherein the colored member is chemiluminescent.

23. An insect/arthropod multifunctional passive trap having in combination means for generating a luminescent attractant, and
means for emitting an insect/arthropod attractant gas generated by allowing a fluid to be delivered to a solid that reacts with the fluid to emit an insect/arthropod attractant gas.

24. A method of killing arthropods comprising the steps of
providing two different substances that when mixed together generate an insect attracting gas,
providing at least one, surface on which an adhesive is positioned for capturing attracted arthropods and targeted insects,
causing the two substances to mix together to generate an attracting gas near the surface,
and positioning the adhesive adjacent to the surface.